

CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending: Claims 1, 4, 17, 21-23, 26, 33, 34, 37-39, and 42.

Canceled or Withdrawn claims: none.

Amended claims: none.

New claims: none.

Claims:

1. **(PREVIOUSLY PRESENTED)** An audio watermarking system comprising

a pattern generator configured to generate both a strong watermark and a weak watermark; and

a watermark insertion unit configured to selectively insert either the strong watermark or the weak watermark into segments of the audio signal, so that resulting segments have either the strong or the weak watermark inserted therein, but not both.

2. **(CANCELED)**

3. **(CANCELED)**

421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324.9256
F: 509.323.8979
www.leehayes.com

lee&hayes

1 **4. (ORIGINAL)** An operating system comprising an audio
2 watermarking system as recited in claim 1.

3
4 **Claims 5- 16 are CANCELED**

5
6 **17. (PREVIOUSLY PRESENTED)** An audio watermark detection
7 system comprising:

8 a pattern generator configured to generate both a strong watermark and a
9 weak watermark; and

10 a watermark detector configured to divide a watermarked audio signal into
11 multiple portions and detect whether a single watermark is present in each portion;
12 and, if a watermark is detected in a portion, further configured to determine
13 whether that single watermark detected in that portion is either a strong or a weak
14 watermark.

15
16 **18. (CANCELED)**

17
18 **19. (CANCELED)**

19
20 **20. (CANCELED)**

21 **21. (ORIGINAL)** An operating system comprising an audio
22 watermark detection system as recited in claim 17.
23

1 **22. (PREVIOUSLY PRESENTED)** An audio watermarking
2 architecture, comprising:

3 a watermark encoding system configured to selectively insert either a
4 strong watermark or a weak watermark into segments of an audio signal, so that
5 resulting segments have either the strong or the weak watermark inserted therein,
6 but not both; and

7 a watermark detecting system configured to detect a presence of a
8 watermark in the segments of the audio signal and, if a watermark is present,
9 further configured to determine whether the present watermark is either the strong
10 watermark or the weak watermark.

11
12 **23. (ORIGINAL)** An audio watermarking architecture as recited
13 in claim 22, wherein the watermark encoding system resides at a content producer
14 to watermark original audio content and the watermark detecting system resides at
15 one or more clients to detect the watermarks and play the original audio content.

16
17 **24. (CANCELED)**

18
19 **25. (CANCELED)**

421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324.9256
F: 509.323.8979
www.leehayes.com

lee & hayes

1 **26. (PREVIOUSLY PRESENTED)** A method for watermarking an
2 audio signal, comprising:

3 watermarking a first portion of the audio signal with a strong watermark;
4 and

5 watermarking a second portion of the audio signal with a weak watermark,
6 wherein the first and second portions are separate.

7
8 **Claims 27-32 are CANCELED.**

9
10 **33. (PREVIOUSLY PRESENTED)** A method comprising:
11 selectively encoding portions of an audio signal with either a strong
12 watermark or a weak watermark, so that resulting portions have either the strong
13 or the weak watermark encoded therein, but not both; and

14 detecting a presence of a watermark in the portions of the audio signal;
15 if a watermark is present, determining whether the present watermark is
16 either the strong watermark or the weak watermark.

17
18 **34. (PREVIOUSLY PRESENTED)** A computer readable medium
19 having computer executable instructions for:

20 watermarking a first portion of an audio signal with a strong watermark;
21 and

22 watermarking a second portion of the audio signal with a weak watermark,
23 wherein the first and second portions are separate.

421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324-9256
F: 509.323-8979
www.leehayes.com

lee & hayes

1 **35. (CANCELED)**

2 **36. (CANCELED)**

3 **37. (CURRENTLY AMENDED)** An audio watermarking system
4 comprising

5 a pattern generator configured to generate both a strong watermark and a
6 weak watermark; and

7 a watermark insertion unit configured to insert the strong watermark into
8 ~~one or more first segments~~ a first segment of the audio signal and to insert the
9 weak watermark into ~~one or more second segments~~ a second segment of the audio
10 signal, wherein the first and second segments are separate.

11 **38. (ORIGINAL)** An audio watermarking system as recited in
12 claim 37, wherein the watermark insertion unit selectively chooses segments for
13 insertion of the watermarks according to an audible measure of the segments.

14 **39. (ORIGINAL)** An audio watermarking system as recited in
15 claim 37, wherein the watermark insertion unit selectively chooses segments for
16 insertion of the strong watermark according to an audible measure of the
17 segments.

18 **40. (CANCELED)**

421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324.9256
F: 509.323.8979
www.leehayes.com

lee & hayes

1 **41. (CANCELED)**

2
3 **42. (ORIGINAL)** An operating system comprising an audio
4 watermarking system as recited in claim 37.

5
6 **43. (CANCELED)**

7
8 **44. (PREVIOUSLY PRESENTED)** An audio watermarking system as
9 recited in claim 1, wherein the one or more resulting segments having the strong
10 watermark inserted therein are distinct in the frequency domain from the one or
11 more resulting segments having the weak watermark inserted therein.

12
13 **45. (PREVIOUSLY PRESENTED)** An audio watermarking
14 architecture as recited in claim 22, wherein the one or more resulting segments
15 having the strong watermark inserted therein are distinct in the frequency domain
16 from the one or more resulting segments having the weak watermark inserted
17 therein.

18
19 **46. (PREVIOUSLY PRESENTED)** A method as recited in claim 26,
20 wherein the first and second portions are separate in the frequency domain.

421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324.9256
F: 509.323.8979
www.leehayes.com



1 **47. (PREVIOUSLY PRESENTED)** A method as recited in claim 33,
2 wherein the one or more resulting portions having the strong watermark inserted
3 therein are distinct in the frequency domain from the one or more resulting
4 portions having the weak watermark inserted therein.

5
6 **48. (PREVIOUSLY PRESENTED)** A medium as recited in claim 34,
7 whercin the first and second portions are separate in the frequency domain.

8
9 **49. (PREVIOUSLY PRESENTED)** A system as recited in claim 37,
10 wherein the first and second segments are separate in the frequency domain.

11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324.9258
F: 509.323.8979
www.leehayes.com

lee&hayes

APPLICATION SERIAL NO.: 10/620,253
ATTY DOCKET NO.: MS1-3SGUSC1
RESPONSE TO OFFICE ACTION DATED 1/26/2005